

REMARKS/ARGUMENTS

1. Introduction

5 This is a full and timely response to the Office action of July 25, 2007. Claims 1, 10, and 18 have been amended and an argument made demonstrating distinction between the claimed invention and known references. Claim 7 has been canceled without disclaimer of any kind. No new material has been introduced. Reconsideration of the application is respectfully requested.

10 **2. Background**

Claim 7 is rejected under 35 U.S.C. 112, second paragraph, and claims 1-21 have been rejected under 35 U.S.C. 103(a) for reasons of record.

3. Discussion

15 Claims 1, 10, and 18 have been amended to comprise limitations similar to (from claim 1) “a predefined NRZI pattern having a run length changing according to a relationship between recording speed and a bandwidth of the photodiode”. These limitations are supported at least by paragraphs [0031] and [0038] and Figs.5 and 8. For example, paragraph [0031] says “In the APC mode, the NRZI pattern is not constrained to
20 the maximum run length, e.g. 14T in DVD-R/RW discs and 9T in Blu-ray discs. The specific NRZI pattern is designed according to the relative relationship between the recording speed and the FMD bandwidth”. Because, “The specific NRZI pattern is designed according to the relative relationship between the recording speed and the FMD bandwidth” and as stated by the Examiner in the first paragraph of page 3 of the current
25 Office action, “The photodiode of the apparatus has a fixed response”, a change in recording speed would result in “adjusting pulse width within the multi-pulse train” (paragraph [0038]), i.e. changing the run length. No new material has been introduced.

As stated by the Examiner in the last line of page 10 of the current Office action concerning "Response to Arguments", "Watabe in view of Kenjo may never change the run length".

5 The applicant agrees that Watabe in view of Kenjo do not change the run length and therefore fail to meet every limitation of amended claims 1, 10, and 18.

4. Summary

The applicant has demonstrated that Watabe in view of Kenjo do not change the run length and therefore fail to meet every limitation of amended independent claims 1, 10, and 18, which each comprise limitations of changing the run length.

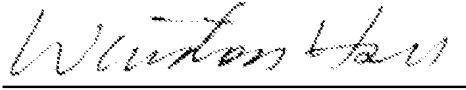
"A major advantage of the present invention is the ability to accurately maintain constant laser power levels in high speed, multi-pulse recording without requiring special, width-extended laser pulses which may possibly damage the optical disc, especially in high-density recording." (paragraph [0039]).

15 While retaining any and all rights of rebuttal to rejections of all other claims in this Office action, at least because the allowability of dependent claims ultimately depends upon the allowability of their respective base claims, the applicant believes that all claims remaining in the application are novel over known references alone or in combination. Therefore, reconsideration of claims 1-6 and 8-21 is respectfully requested.

20 Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Appl. No. 10/605,680
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Reply to Office action of July 25, 2007

Sincerely yours,



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